

REMARKS

Favorable reconsideration is respectfully requested in view of the foregoing amendments and following remarks.

Claims 8-11 have been cancelled without prejudice.

Accordingly, the rejection of claims 10-11 under 35 USC 101 and claims 8-10 under 35 USC 102 are deemed to be overcome.

Claims 1 and 5-7 have been revised in conformance with U.S. practice. A minor editorial correction has also been effected to claim 2 and the specification which are self-explanatory.

In view of the foregoing, the rejection of claims 1-11 under 35 USC 112, second paragraph, is deemed to be overcome.

In view of the foregoing, it is believed that each ground of rejection set forth in the Official Action have been overcome, and that the application is now in condition for allowance. Accordingly, such allowance is solicited.

The Examiner is respectfully requested to acknowledge receipt of the certified priority document which was filed on May 22, 2001. A copy of the cover letter is enclosed.

The Examiner is also requested to acknowledge his receipt and consideration of the Information Disclosure Statement filed on April 25, 2001. A copy of the IDS is enclosed.

Favorable action and allowance is solicited.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

Respectfully submitted,
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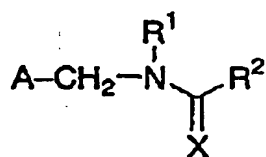
SUMMARY OF THE INVENTION

Under the above circumstances, the present inventors have studied intensively for searching a new type of an agent for controlling flies that live in or come flying to livestock pens or poultry houses. As a result, surprisingly, the present inventors have found that an NACRA type insecticidal compound has very high activity against these flies. As a result of the present inventors' further study, the present invention has been completed.

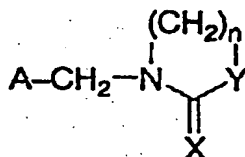
That is, according to the present invention, there is provided:

(1) A method for controlling flies, that live in or come flying to livestock pens or poultry houses, comprising using a compound or salt thereof having an affinity for a nicotinic acetylcholine receptor of insects;

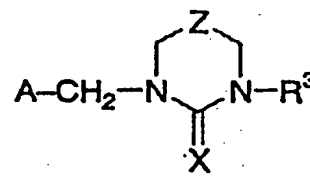
(2) The method for controlling flies according to the above (1), wherein the compound or the salt thereof is a compound of the formula I, II or III:



I



II



III

wherein A represents 6-chloro-3-pyridyl, 2-chloro-5-

thiazolyl, tetrahydrofuran-3-yl, 5-methyltetrahydrofuran-3-yl, 3-pyridyl, 6-bromo-3-pyridyl, 3-cyanophenyl, 2-methyl-5-thiazolyl, 2-phenyl-5-thiazolyl or 2-bromo-5-thiazolyl; R^1 represents hydrogen atom, methyl, ethyl, propyl, propenyl, propynyl, formyl, acetyl or methoxycarbonyl; R^2 represents methyl, ethyl, amino, methylamino, N,N-dimethylamino, ethylamino, N,N-diethylamino, N-methyl-N-ethylamino, 1-pyrrolidinyl, N-methylformamide, N-methylacetamide or N-methyl-N-(methoxycarbonyl)amino; R^3 represents a hydrogen atom, methyl, ethyl, propyl, propenyl, propynyl, formyl, acetyl or methoxycarbonyl; X represents nitromethylene, nitroimino, cyanoimino or trifluoroacetylmino; Y represents a group represented by ~~$N-(R^4)$~~ *wherein R^4 has the same meaning as R^1* , or sulfur atom; Z represents a group represented by ~~$N-(R^5)$~~ *wherein R^5 has the same meaning as R^1* , or oxygen atom; and n is an integer of 2 or 3, or a salt thereof;

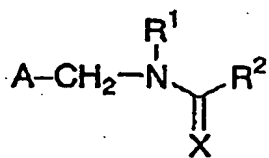
(3) The method for controlling flies according to the above (1), wherein the compound is one or more compounds selected from the group consisting of clothianidin (common name), nitenpyram (common name), imidacloprid (common name), thiacloprid (common name), acetamiprid (common name), thiamethoxam (common name) and dinotefuran (common name);

(4) The method for controlling flies according

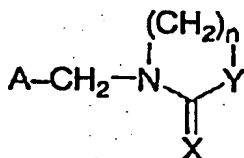
What is claimed is:

(Amended)

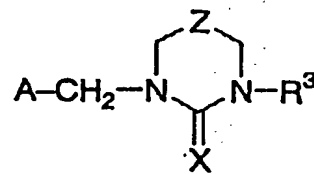
1. [^] A method for controlling flies, ~~that live in or come flying to livestock pens or poultry houses,~~
~~contacting the flies with~~
comprising [^] using a compound or salt thereof having an
5 affinity for a nicotinic acetylcholine receptor of insects.
(Amended)
2. [^] The method for controlling flies according
to claim 1, wherein the compound or the salt thereof is a
compound of the formula I, II or III:



I



II



III

- 10 wherein A represents 6-chloro-3-pyridyl, 2-chloro-5-thiazolyl, tetrahydrofuran-3-yl, 5-methyltetrahydrofuran-3-yl, 3-pyridyl, 6-bromo-3-pyridyl, 3-cyanophenyl, 2-methyl-5-thiazolyl, 2-phenyl-5-thiazolyl or 2-bromo-5-thiazolyl;
R¹ represents hydrogen atom, methyl, ethyl, propyl,
15 propenyl, propynyl, formyl, acetyl or methoxycarbonyl; R² represents methyl, ethyl, amino, methylamino, N,N-dimethylamino, ethylamino, N,N-diethylamino, N-methyl-N-ethylamino, 1-pyrrolidinyl, N-methylformamide, N-methylacetamide or N-methyl-N-(methoxycarbonyl)amino; R³
20 represents a hydrogen atom, methyl, ethyl, propyl, propenyl,

propynyl, formyl, acetyl or methoxycarbonyl; X represents nitromethylene, nitroimino, cyanoimino or trifluoroacetylmino; Y represents a group represented by $N-(R^4)$, ^{wherein R^4 has the same meaning as R^1} ~~$(R^4$ is as defined with respect to $R^1)$~~ , or sulfur atom; Z ^{wherein R^5 has the same meaning as R^1} ~~represents a group represented by $N-(R^5)$, $(R^5$ is as defined with respect to $R^1)$~~ , or oxygen atom; and n is an integer of 2 or 3, or a salt thereof.

3. The method for controlling flies according to claim 1, wherein the compound is one or more compounds selected from the group consisting of clothianidin (common name), nitenpyram (common name), imidacloprid (common name), thiacloprid (common name), acetamiprid (common name), thiamethoxam (common name) and dinotefuran (common name).

4. The method for controlling flies according to claim 1, wherein the compound is clothianidin (common name).

(Amended)
5. ^a The method for controlling flies according to claim 1, wherein the compound or salt thereof having an affinity for a nicotinic acetylcholine receptor of insects is sprinkled or sprayed ^a in livestock pens ^a or poultry houses.

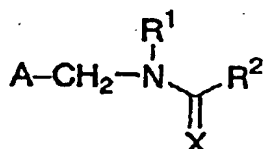
(Amended)
6. The method for controlling flies according to claim 1, wherein the compound or salt thereof ^{having} with an affinity for a nicotinic acetylcholine receptor of insects is applied to the inside of ^a livestock pens ^a or ^a poultry houses.

(Amended)

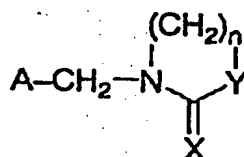
7. [^] The method for controlling flies according to claim 1, wherein a poisoned bait containing the compound or salt thereof ^{having} ~~with~~ an affinity for a nicotinic acetylcholine receptor of insects is placed in ^a livestock pens [^] or poultry houses.

8. A composition for controlling flies, that live in or come flying to livestock pens or poultry houses, comprising a compound or salt thereof having an affinity for a nicotinic acetylcholine receptor of insects.

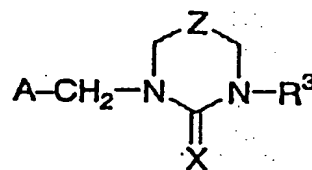
9. The composition for controlling flies according to claim 8, wherein the compound or the salt thereof is a compound of the formula I, II or III:



I



II



III

wherein A represents 6-chloro-3-pyridyl, 2-chloro-5-thiazolyl, tetrahydrofuran-3-yl, 5-methyltetrahydrofuran-3-yl, 3-pyridyl, 6-bromo-3-pyridyl, 3-cyanophenyl, 2-methyl-5-thiazolyl, 2-phenyl-5-thiazolyl or 2-bromo-5-thiazolyl; R¹ represents hydrogen atom, methyl, ethyl, propyl, propenyl, propynyl, formyl, acetyl or methoxycarbonyl; R² represents methyl, ethyl, amino, methylamino, N,N-